

AMENDMENTS TO THE CLAIMS

Please amend the claims as follows.

1. (Currently amended) An apparatus for manufacturing an anisotropic formed body in which functional, magnetic fine particles are oriented in a specific direction within a matrix and in which anisotropy is given to properties attributable to the functional fine particles, comprising:

a superconducting magnet device that has a cylindrical superconducting coil and generates a uniform and parallel magnetic field in which magnetic lines of force at equal intervals and parallel to each other extend through a mold arranged in a barrel axis of the superconducting coil;

a heating device ~~for adapted to heat ing~~ in the mold a liquid molding material with the functional fine particles contained in the matrix, said heating device being disposed within said transfer opening; and

a drive device ~~for adapted to drive ing~~ at least one of the mold and the heating device in the barrel axis direction of the superconducting coil,

wherein the cylindrical superconducting coil is composed of an upper superconducting coil and a lower superconducting coil vertically spaced apart from each other, and

wherein a gap between the upper and lower coils constitutes a transfer opening for the mold.

2-7. (canceled)

8. (Original) An apparatus for manufacturing an anisotropic formed body according to claim 1, further comprising an injection molding device using an injection mold as the mold.

9. (Original) An apparatus for manufacturing an anisotropic formed body according to claim 1, further comprising a photo-setting molding device using a photo-setting mold as the mold.

10. (Original) An apparatus for manufacturing an anisotropic formed body according to claim 1, further comprising a refrigerator for cooling the superconducting coil by a forced-flow cooling or a conduction cooling.

11-14. (Canceled)

15. (Previously presented) An apparatus for manufacturing an anisotropic formed body according to claim 1, wherein the superconducting magnet device generates a uniform parallel magnetic field having a magnet flux density of 1 to 10 T.

16. (Previously presented) An apparatus for manufacturing an anisotropic formed body according to claim 1, wherein the superconducting magnet device generates a uniform parallel magnetic field having a diameter of 300 to 1000 mm.

17. (Previously presented) An apparatus for manufacturing an anisotropic formed body according to claim 1, wherein the superconducting coils are formed into an annular configuration and have an inner diameter of at least 200 mm or more.

18. (Currently amended) An apparatus for manufacturing an anisotropic formed body, the apparatus comprising:

a cylindrical superconducting coil having a first superconducting coil and a second superconducting coil; and

a heating device adapted to heat a mold, said heating device being disposed within a transfer opening, wherein:

said first and second superconducting coils are structurally adapted to generate a magnetic field,

a said transfer opening separates said first second superconducting coil from said second superconducting coil, and

a said mold, when disposed within said transfer opening, has said magnetic field extending therethrough.

19. (Previously presented) An apparatus for manufacturing an anisotropic formed body according to claim 18, wherein said magnetic field has uniform and parallel magnetic lines of force.

20. (Previously presented) An apparatus for manufacturing an anisotropic formed body according to claim 18, wherein a liquid molding material encased within said mold includes functional fine particles within a matrix oriented in a specific direction,

said magnetic field orienting said functional fine particles in said specific direction.

21. (Previously presented) An apparatus for manufacturing an anisotropic formed body according to claim 18, wherein said mold includes a first mold portion and a second mold portion,

said first and second mold portions being adapted to encase a molding material.

22. (Currently amended) An apparatus for manufacturing an anisotropic formed body according to claim 18, wherein a said molding material is encased within said mold.

~~the apparatus further comprising:~~

~~heating means disposed within said transfer opening for heating said molding material.~~

23. (Currently amended) An apparatus for manufacturing an anisotropic formed body according to claim 18, 22, wherein said mold includes a first mold portion and a second mold portion, and said heating ~~means~~ device includes a first heating device and a second heating device,

said first heating device heating said first mold portion and said second heating device heating said second mold portion.

24. (Previously presented) An apparatus for manufacturing an anisotropic formed body according to claim 23, wherein said second heating device is moveable toward and away from said first heating device.

25. (Previously presented) An apparatus for manufacturing an anisotropic formed body according to claim 18, further comprising:

an injection molding device using an injection mold as said mold.

26. (Previously presented) An apparatus for manufacturing an anisotropic formed body according to claim 18, further comprising:

a photo-setting molding device using a photo-setting mold as said mold.

27. (Currently amended) An apparatus for manufacturing an anisotropic formed body according to claim 18, further comprising:

a refrigerator means for cooling said first and second superconducting coils.

28. (New) An apparatus for manufacturing an anisotropic formed body according to claim 1, wherein the drive device drives the mold in the barrel axis direction.

29. (New) An apparatus for manufacturing an anisotropic formed body according to claim 1, wherein the drive device drives the heating device in the barrel axis direction.

30. (New) An apparatus for manufacturing an anisotropic formed body according to claim 18, further comprising:

a drive device is adapted to drive at least one of the mold and the heating device in the barrel axis direction of the superconducting coil.

31. (New) An apparatus for manufacturing an anisotropic formed body according to claim 30, wherein the drive device drives the mold in the barrel axis direction.

32. (New) An apparatus for manufacturing an anisotropic formed body according to claim 30, wherein the drive device drives the heating device in the barrel axis direction.